

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number
WO 2005/080252 A1

(51) International Patent Classification⁷: **B66F 9/18**

(21) International Application Number:
PCT/DK2005/000119

(22) International Filing Date: 22 February 2005 (22.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PA 2004 00278 23 February 2004 (23.02.2004) DK

(71) Applicant (for all designated States except US): **DANISH STACKING AND LOADING AUTOMATIC APS** [DK/DK]; Rimmervej 13, DK-9370 Hals (DK).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **HØJ, Karl** [DK/DK]; Rimmervej 13, Ulsted, DK-9370 Hals (DK).

(74) Agent: **PATRADE A/S**; Fredens Torv 3A, DK-8000 Aarhus C (DK).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

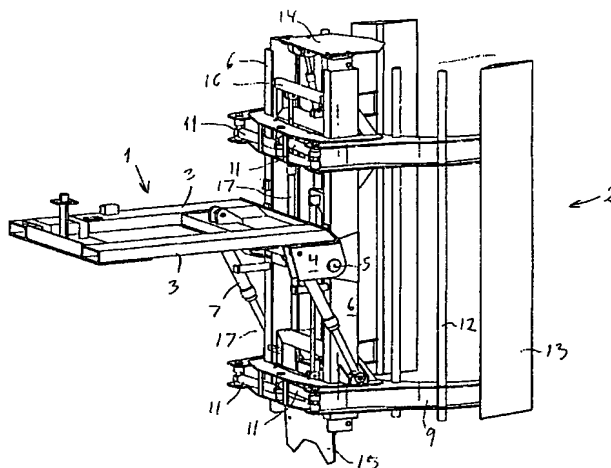
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: APPARATUS FOR HANDLING CYLINDRIC OBJECTS



(57) Abstract: An apparatus for handling ring-shaped items, in particular lorry tyres, is made with a base part (1) that may be put on the lifting forks of a usual forklift truck. A pivotable gripping member (2) is disposed on the base part (2) having jaws (9) with holding means (13) which may get hold of a row of tyres (21). In order to avoid gaps between the tyres (21), and thus mutual displacing of them when depositing the stack of tyres, the gripping part is provided with displaceable and pivotable adjusting members (14, 15) at each end of the gripping part (2). A row of tyres standing on the ground may be pressed together with the adjusting members (14 and 15) into a continuous group which subsequently may be gripped by the jaws and gripping means (13), after which the compressed row may be pivoted to a vertical stack by means of hydraulic cylinders (7) and deposited. By the invention manual adjusting of a stack of tyres is avoided after depositing, as the row of tyres is compressed before gripping, as well as manpower may be saved.



WO 2005/080252 A1